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# Defense Occupational and Environmental Health Readiness System – The Resources Information Technology Program Office (RITPO) **Overview Briefing AFEB Conference**

21JUNE05 v1.3

# Outline

- Overview
- Applications
- Functionality
- DOEHRS-IH Schedule
- Status
- Conclusion



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# Defense Occupational Environmental Health Readiness System -Hearing Conservation (DOEHRS-HC)

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The Resources Information  
Technology Program Office  
(RITPO)

# What is DOEHRS-HC?

DOEHRS-HC is a Tri-Service noise exposure surveillance & management system that electronically captures, analyzes, maintains, and stores hearing test results and personnel protection equipment for all DOD Military and Civilian personnel exposed to hazardous noise



# Complete Hearing Conservation Management

**DOEHRS-HC provides complete  
hearing loss traceability for all  
Active Duty, Reserve, Guard, and  
Civilian Personnel**

**Who is at risk?**



**Who is impaired?**



**Who is deployable?**



# DOEHRS-HC Configuration



- Automates the hearing test
- Performs objective calculations
- Interprets calculations into clinical finding
- Monitors progress along clinical pathways

**DOEHRS-HC is a Commercial-off-the-shelf (COTS - Benson Medical CCA Audiometer) and Government-off-the-shelf (GOTS) solution using Microsoft Visual Basic,**



# Value to the Military Health System

- **Hearing Loss Prevention** - Improves early detection of hearing loss and personnel auditory readiness
- **Tri-Service Usability** - Delivers a user-friendly product for DOD military and civilians customers
- **Scalable** - Integrated into hospitals, clinics, or mobile van units
- **Portable** - Capable of running off a notebook computer for remote/hazardous locations



# Deployed Environment

**Deployed since 1999**  
**Operational at over 700 sites with 1600 users**

- DOD Hospitals & Fixed facilities (628)
- Mobile Health Vans (18)
- Ship-board (30)
- Army National Guard (54)
- Air Force Guard & Reserves (99)
- Battalion Aid Stations
- Basic Training Sites
- Other government agencies
  - NSA, NASA, NATO Clinic





# DOEHRS Data Flow

Enables effective management of Hearing Conservation program & policy decision-making

Promotes data accuracy & population health analysis

Noise Exposure

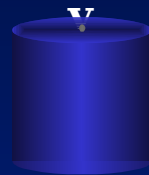


Hearing Test//Medical Record



Local data reporting

Data Repositor



Services HQ /



MACOM/MAJCOM Service, and DOD reports

Local storage and bi-directional data transfer with the Data Repository

**DOEHRS-DR currently has over 12 million audiometric test records**

# Conclusion

- DOEHRS-HC protects the hearing of our DOD personnel
- DOEHRS-HC assists the DOD to meet the goal of reducing hearing loss
- DOEHRS-HC supports deployment readiness of our DOD personnel
- DOEHRS-HC enables the DOD to meet OSHA requirements
- DOEHRS-HC helps the DOD to reduce compensation cost and save tax-payers dollars

**DOEHRS-HC Improves the Quality  
of Life**



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# Defense Occupational and Environmental Health Readiness System – Industrial Hygiene (DOEHRS-IH)

The Resources Information  
Technology Program Office  
(RITPO)

## Overview Briefing



# Overview

- Tri-Service, web-based Occupational and Environmental Health (OEH) exposure database system with mobile capability
- Data mining capability
  - DOEHRS Data Repository

- Single definition, collection and analysis platform to generate a longitudinal OEH exposure record for Service members
- Replaces fragmented, Service-specific, incomplete processes
- Garrison and deployed commonality:
  - Hazards
  - Samples
  - Results
  - Exposures
  - Locations





# Purpose

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- Assists combatant commanders in the application of Operational Risk Management (ORM)
  - Initial build designed for garrison support
  - Deployment capable
- Single solution to support the DoD Exposure Assessment Model
- Join garrison and deployed OEH data into DoD/MHS enterprise solution
- Provides core capability for exposure surveillance in Theater Medical Information Program (TMIP Block 2)
- Provide exposure data for medical surveillance, diagnosis, and treatment
- Provide lifetime exposure record for medical-legal follow-up
  - Future availability for VA use

**“Training as We Fight and Fight as We Train”**



# System Attributes

- Mobile OEH data collection system
  - Remote bases/installations
  - Ships/deployment areas
  - Emergency locations
- OEH data availability
  - Installation to installation
  - Garrison to Deployed
  - Deployed to entry







# Functionality

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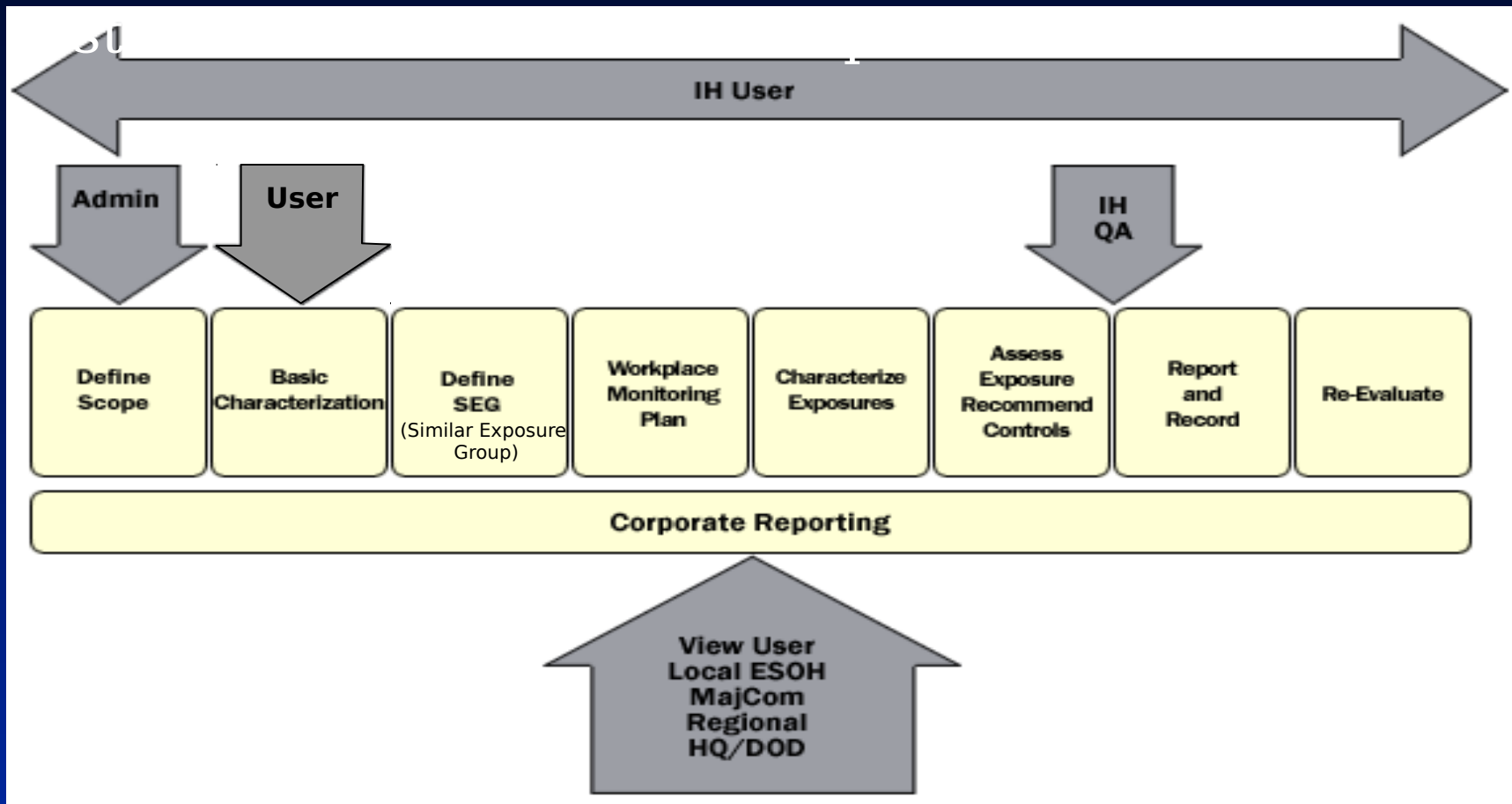
- Plans and documents baseline, routine and incident-driven OEH sampling
  - Capture air, water, soil and OEH sampling
- Documents Chemical, Biological, Radiological and Nuclear (CBRN) exposures
- Capture data for vulnerability assessments (food/water/vector/disease)
- Provide OEH exposure info to health care providers for diagnosis/treatment (via CHCSII - future)



# DoD IH Exposure Assessment Model

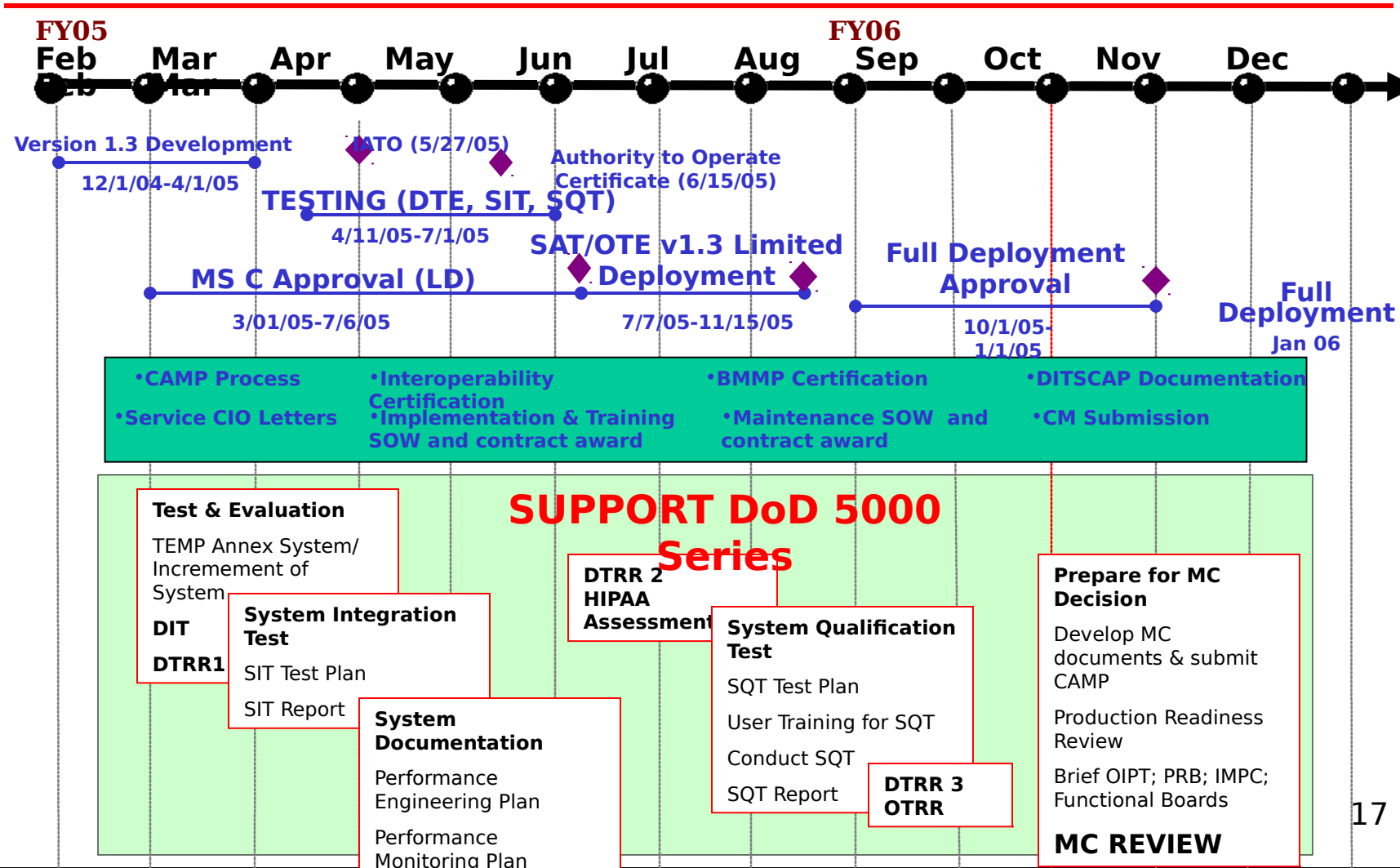
## “Standard of Care”

- Consistent with Business Management Modernization Program (BMMP) architectural





# Schedule (FY05-06)





# Status

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- **DOEHRS-IH** will start limited deployment 1 August 2005
  - Madigan Army Medical Center; Rock Island Arsenal
  - San Diego Naval Medical Center, Pensacola Naval Hospital
  - 2 AF National Guard Sites
- **Theatre Medical Information Program** will take delivery of DOEHRs-IH current version in April, 2005 for hand-off to integration contractor by December 2005
  - TMIP-J will finish development of Block 2 Release 2 in May 2006 and commence testing
  - TMIP-J will deliver Block 2 Release 2 in November 2006 which will include DOEHRs-IH



# Conclusion

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- **DOEHRS-IH will deploy with Service Support in August 2005**
- **DOEHRS-IH SQT in progress - last hurdle for Milestone C**
- **TMIP awaits DOEHRS-IH to begin development for TMIP-J Block 2, Release 2; after DOEHRS-IH completes SQT**

# Web Sites

- OccHealth Portal –  
<https://dohrswww.apgea.army.mil>
- DOEHRS Data Repository – <https://dohrswww.apgea.army.mil/dohrsdr>
- DOEHRS Development Portal –  
<https://doehrs-ih.ms.northropgrumman.com/doehrs-ih>

**DOEHRS-HC Improves the Quality  
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# DOEHRS

## Relationship to TMIP & CHCS II

- Signed MOA between RITPO and TMIP.
- DOEHRS will provide exposure information to health care providers (HCPs) to aid in medical diagnosis & treatment decisions. (CHCS II)
- DOEHRS will deliver the long term exposure record for all personnel in most operational situations (MHS Data Repository)